

FEATURES

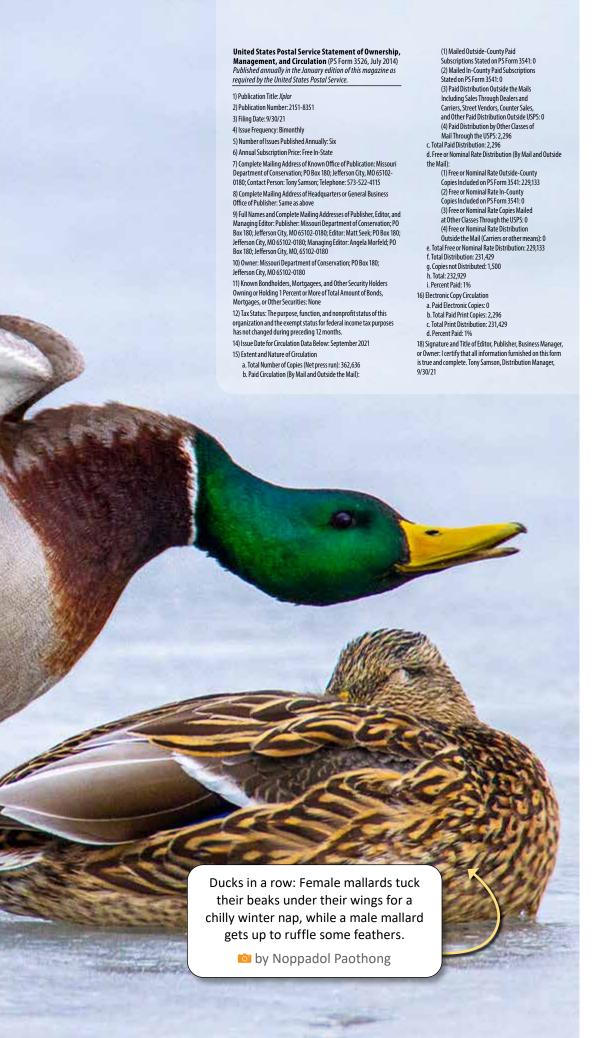
6 A Walk in the Winter Woods

Pull on your snow boots for a nature-filled hike.

12 Animal Teams

Winning in the wild is







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ON THE COVER Tufted Titmouse

by Noppadol Paothong



Your guide to all the VNVSVAL, VNIQVE,

AND VNBELIEVABLE

stuff that goes on in nature

Life flutters by quickly for most butterflies. Many live for only a few weeks. But MOURNING CLOAKS can live 10 months or longer. Adults emerge in June and July, hibernate during winter, and survive until spring.

HAIRY WOODPECKERS sometimes follow PILEATED **WOODPECKERS** around the forest. When the larger bird flies away to hammer on a new tree, the smaller one swoops in to search the hole for yummy insects left behind.



In the fall, a **BEAVER** family may gather 2,000 pounds of branches and stick them into the mud in

deep water near their den. When winter comes, family members swim under the ice to grab a stick

for a snack.



is Missouri's fastest growing native tree. Under ideal conditions, it can reach a height of 50 feet in only six years. If humans grew that fast, you'd be 6 feet tall before your first birthday.



Snow is nothing to grouse about — if you're a RUFFED GROUSE. The woodland birds grow comb-like bumps on their toes during winter. The bumps work like snowshoes to

help a grouse walk on top of deep snow.



LESSER SCAUP sometimes do somersaults in the water. The quackrobats aren't trying

lay eggs to start new colonies.

spring arrives, the queens

tiny animals called amphipods off of their chest feathers and flipping over in the process.

to win the Olympics. They're trying to eat

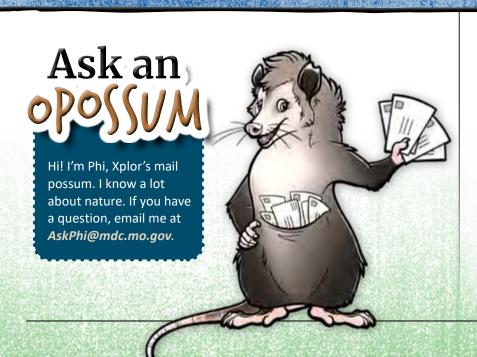


DON'T KNOW? Jump to page 21 to find out.

WHAT

- 1 At the bottom of a stream, I make my stand ...
- 2 ... in a castle built from leaves, pebbles, and sand.
- 3 Water that's clean is really quite grand.
- 4 But as an adult, I prefer land.





Q: Why do opossums have pouches? From Avayah, age 7

A: Believe it or not, girl possums are the only mammal in Missouri with a pouch. We're marsupials, like kangaroos and koalas. A pouch is a big pocket, but instead of cellphones and spare change, we keep babies in there. Newborn possums aren't much bigger than kidney beans. They're too itty-bitty to survive on their own, so they crawl inside their mom's pouch. Once they're in there, the little pouch potatoes have a safe place to grow for nearly two months.



FEED YOUR FEATHERED FRIENDS

putting up bird feeders is a great way to keep your beak-tipped buddies well fed all winter long.

CHOOSING A FEEDER

Different kinds of feeders attract different kinds of birds. Putting up more than one feeder will keep bully birds from hogging all the food — we're looking at you, blue jay.

Tube feeders with compact perches are best for small, agile birds like chickadees, titmice, and goldfinches.

Hopper or platform feeders are better for larger birds like blue jays, northern cardinals, and doves.

Suet cages attract woodpeckers, wrens, and nuthatches.

KEEP IT CLEAN

You wouldn't want to eat off of a dirty plate, and your feathered friends don't want to either.

Wash your feeders in soapy water about every two weeks.

Let them dry completely before filling them with seeds.

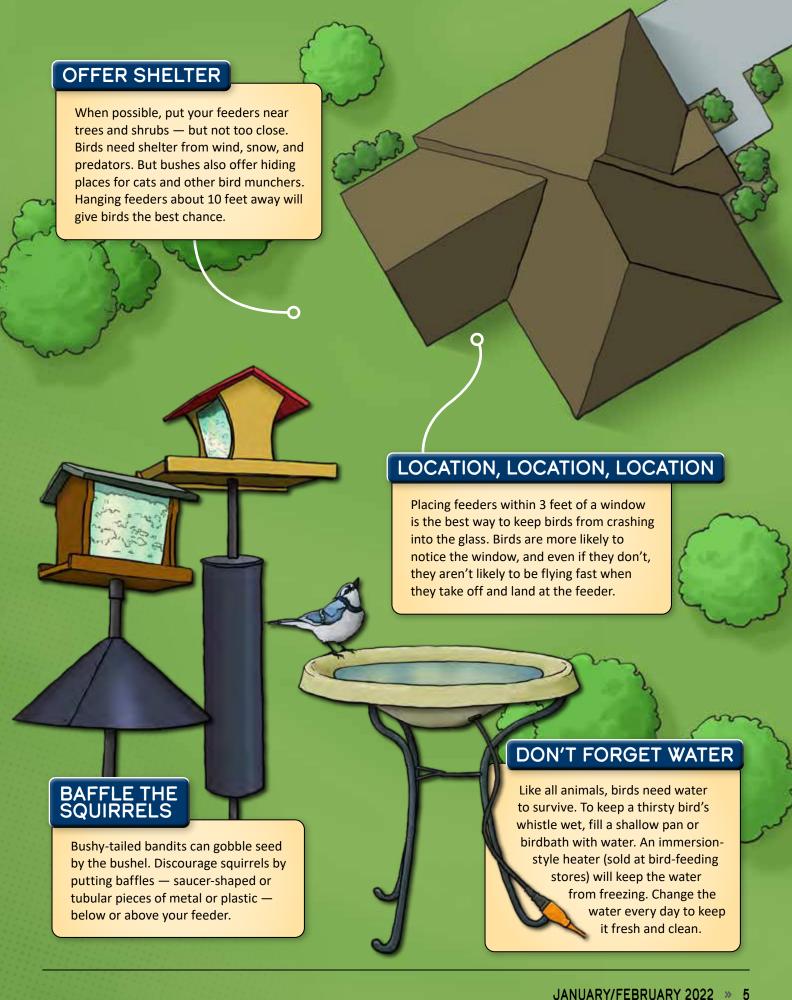
DIFFERENT TREATS FOR DIFFERENT TWEETS

What should you serve at your bird buffet? Black-oil sunflower seeds attract the widest variety of birds. Millet is good for birds like sparrows and doves that search for food on the ground. And suet cakes work best for insect eaters like woodpeckers and nuthatches.

















NORTH AMERICAN RIVEROUTER

TAIL RUDDER

With a swish of its long, thick tail, an otter can twist and turn to outswim almost any fish.

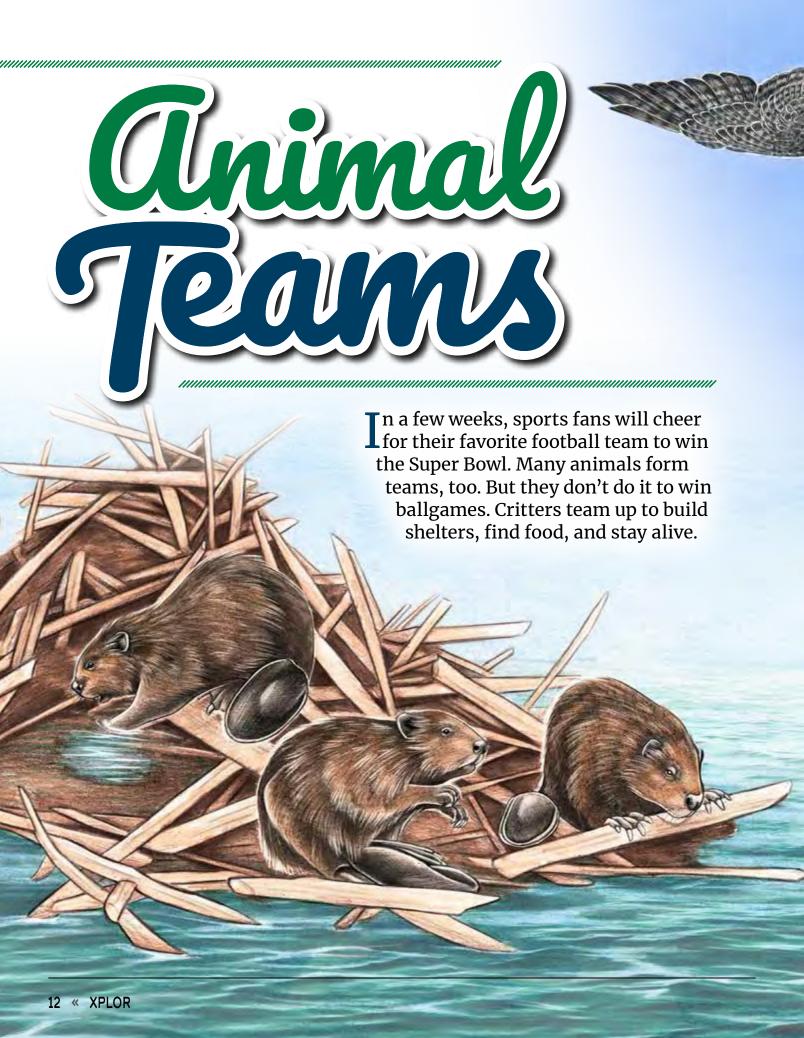
FABULOUSLY FURRY

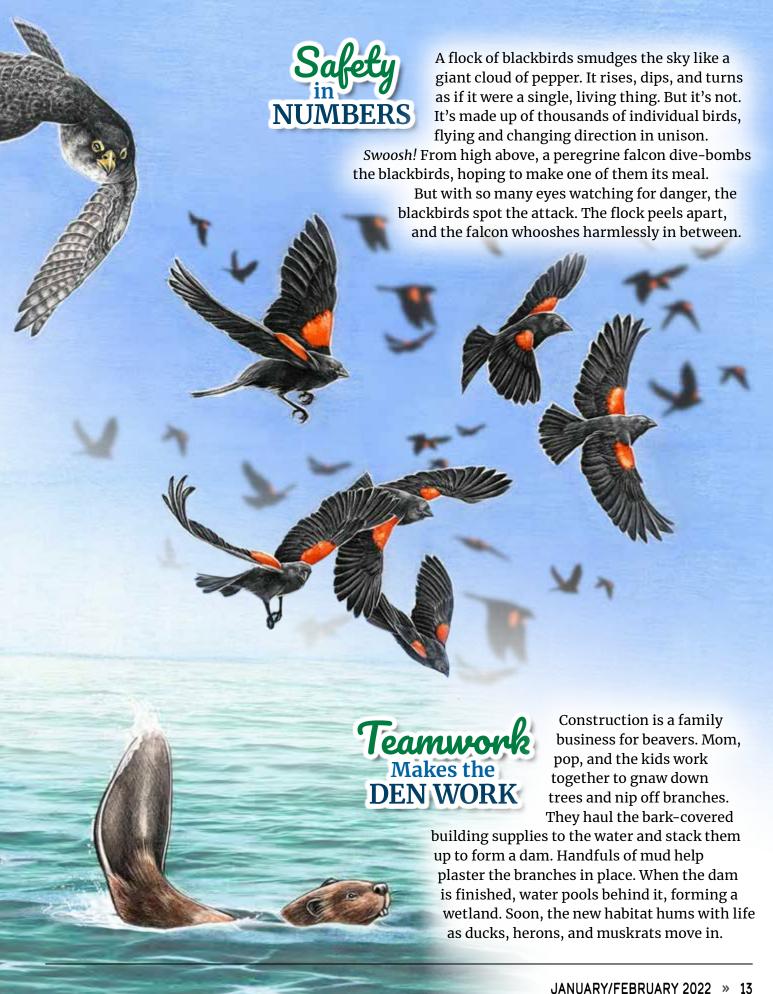
Each square inch of skin is covered with nearly 375,000 hairs. The thick fur keeps an otter cozy in icy water.

TOUCHY MUSTACHE

Bushy whiskers help an otter feel for food in dark or murky water. The hairs can even detect currents created by fish swimming nearby.









American burying beetles eat dead animals. Mouse-sized morsels get eaten on the spot. Larger animals are saved for later.

Working together at night, two beetle parents use their heads to bulldoze soil out from under a corpse. Inch by inch, it sinks into a shallow grave. This isn't easy for a thumb-sized insect. If you think it is, try burying a car using only your hands!

Once it's buried, the female lays eggs on top of it. When the eggs hatch, the parents feed the meat to their babies.



waiting at the entrance to snap it up.

HUNGER Cames

Coyotes have been



Southern flying squirrels can't pack on fat for winter like other squirrels. If they did, they'd be too heavy to glide. So when

temperatures plummet, the little forest flyers crowd into tree cavities and snuggle together to keep cozy. Their furry bodies can warm a den by 30 degrees. Nineteen squirrels have been found denning together in Missouri, and 50 were packed into a single tree in Illinois!







Geese fly in a "V" for a reason, and it isn't to avoid goosing each

other. By flying in a wedge, geese in the front slice through the air and block the wind for geese flying in the back. This helps members of the flock save energy during long migration flights. When the goose at the front gets tired, it drops back and lets a different honker be the leader.







ZIFILOR MORE

BROSINE BRUSH



Prush piles are high-rise hotels for all kinds of critters. Nooks and crannies between branches provide "rooms" where animals take shelter when weather turns wintery.

Nearly a dozen kinds of sparrows flock to the Show-Me State during the snowy months. Many of them pile into brush piles to keep cozy and to feast on the seeds of weeds that grow between branches.

Sparrows are what birdwatchers call "LBBs" — little brown birds — which means they're hard to spot against a brushy background. Their unflashy feathers also make it tough to tell one kind of sparrow from another. But look closely at each bird's head and body, and you'll soon spot clues to help you identify different species.



How many of each kind can you find? Hint: There are 25 sparrows in total.

White-throated sparrow

Dark-eyed junco

Field sparrow

White-crowned sparrow

Savannah sparrow

Tree sparrow

Fox sparrow

GETOVII

FUN THINGS TO DO AND GREAT PLACES TO DISCOVER NATURE



Witness a MIGRATION SENSATION by visiting one of Missouri's wild wetlands. You'll see thousands of ducks, geese, and other waterbirds refueling for their journey north.

BLACK BEARS begin to emerge from winter dens in February. Learn how to be bear aware at short.mdc.mo.gov/Zky.

To show off for females, male **COTTONTAILS** chase, punch, and jump over each other. Bunny battles are triggered when temperatures climb above 60 degrees.

SHARE A BAGEL WITH SOME BIRDS.

Smear peanut butter on a bagel. Roll it in birdseed. Poke a pencil through for a perch. Hang it in a tree with a loop of yarn.

> EASTERN BLUEBIRDS

nest in early spring. Learn how to build a home tweet home for Missouri's colorful state bird at audubon.org/ news/how-buildbluebird-nest-box.



Don't put away your tent just because it's cold outside.

WINTER CAMPING can be fun and cozy — if you know how to do it right.

For tips, check out short.mdc.mo.gov/ZvT.

Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at mdc.mo.gov/events.





CADDISFLY LARVA

Caddisfly babies, or larvae, live underwater. Many species build tube-shaped homes out of leaves, pebbles, or sand. The home offers camouflage, protects the baby's squishy belly, and adds weight so the little insect isn't swept away by swift currents. Caddisflies need clean water to survive. Finding them is a clue that a stream is healthy. Near the end of their lives, caddisflies transform into air-breathing, moth-like adults.



Cut out this critter card and take it with you outside. How many of the things on the card can you find?

EASTERN GRAY SQUIRREL







TREETOP APARTMENT

The large leafy nests you see in trees don't belong to birds. Squirrels build them to sleep in.

TALENTED TAILS

A squirrel uses its bushy tail for balance, for shade on a sunny day, as an umbrella when it rains, as a blanket when it's cold, and as a parachute if it falls.

CATCHING THE LOVE BUG

During mating season, males chase females up, down, and around trees.

CHATTERBOXES

When it's angry or scared, a squirrel flicks its tail and barks out cherk! cherk! cherk! to warn other squirrels.

MESSY EATERS

When nibbling nuts, squirrels are messier than your baby brother eating spaghetti. Their picnic sites are littered with half-eaten acorns and hickory nut shells.

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FREE TO MISSOURI HOUSEHOLDS



Look for gray squirrels in forests, backyards, and nearly anywhere nut trees are found. To learn more about them, scamper over to mdc.mo.gov/field-guide.

